STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

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Application Serial Number: _/o/66 7,27/A_
Source: _/fw/6_
Date Processed by STIC: _6//6/06_

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
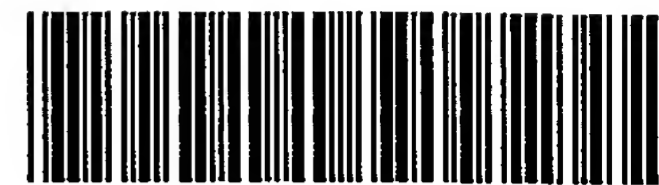**http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/10/06

RAW SEQUENCE LISTING   DATE: 06/16/2006
PATENT APPLICATION: **US/10/667,271A**   TIME: 11:46:30

Input Set : **F:\02-763-B Sequence Listing.txt**
Output Set: **N:\CRF4\06162006\J667271A.raw**

```
 3 <110> APPLICANT: Sirna Therapeutics
 4        McSwiggen, James
 5        Macejak, Dennis
 6        Beigelman, Leonid
 7        Morrissey, David
 9 <120> TITLE OF INVENTION: RNA Interference Mediated Inhibition of Hepatitis C Virus
(HCV)
10        Gene Expression Using Short Interfering Nucleic Acid (siNA)
12 <130> FILE REFERENCE: 400/129 (MBHB02-763B)
14 <140> CURRENT APPLICATION NUMBER: 10/667,271A
15 <141> CURRENT FILING DATE: 2003-09-16
17 <150> PRIOR APPLICATION NUMBER: US 10/444,853
18 <151> PRIOR FILING DATE: 2003-05-23
20 <150> PRIOR APPLICATION NUMBER: PCT US03/05043
21 <151> PRIOR FILING DATE: 2003-02-20
23 <150> PRIOR APPLICATION NUMBER: PCT US02/09187
24 <151> PRIOR FILING DATE: 2002-03-26
26 <150> PRIOR APPLICATION NUMBER: USSN 60/401,104
27 <151> PRIOR FILING DATE: 2002-08-05
29 <150> PRIOR APPLICATION NUMBER: USSN 60/358,580
30 <151> PRIOR FILING DATE: 2002-02-20
32 <150> PRIOR APPLICATION NUMBER: USSN 60/363,124
33 <151> PRIOR FILING DATE: 2002-03-11
35 <150> PRIOR APPLICATION NUMBER: USSN 60/386,782
36 <151> PRIOR FILING DATE: 2002-06-06
38 <150> PRIOR APPLICATION NUMBER: USSN 60/406,784
39 <151> PRIOR FILING DATE: 2002-08-29
41 <150> PRIOR APPLICATION NUMBER: USSN 60/408,378
42 <151> PRIOR FILING DATE: 2002-09-05
44 <150> PRIOR APPLICATION NUMBER: USSN 60/409,293
45 <151> PRIOR FILING DATE: 2002-09-09
47 <150> PRIOR APPLICATION NUMBER: USSN 60/440,129
48 <151> PRIOR FILING DATE: 2003-01-15
50 <160> NUMBER OF SEQ ID NOS: 1706
52 <170> SOFTWARE: PatentIn version 3.2
54 <210> SEQ ID NO: 1
55 <211> LENGTH: 19
56 <212> TYPE: RNA
57 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
62 <400> SEQUENCE: 1
63 gccccgggag gucucguag                                                    19
```

Close up spaces

Does Not Comply
Corrected Diskette Needed

66 <210> SEQ ID NO: 2

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PATENT APPLICATION: US/10/667,271A   TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

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 67 <211> LENGTH: 19
 68 <212> TYPE: RNA
 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
 74 <400> SEQUENCE: 2
 75 ugugguacug ccugauagg                                           19
 78 <210> SEQ ID NO: 3
 79 <211> LENGTH: 19
 80 <212> TYPE: RNA
 81 <213> ORGANISM: Artificial Sequence
 83 <220> FEATURE:
 84 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
 86 <400> SEQUENCE: 3
 87 uugugguacu gccugauag                                           19
 90 <210> SEQ ID NO: 4
 91 <211> LENGTH: 19
 92 <212> TYPE: RNA
 93 <213> ORGANISM: Artificial Sequence
 95 <220> FEATURE:
 96 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
 98 <400> SEQUENCE: 4
 99 ccccgggagg ucucguaga                                           19
102 <210> SEQ ID NO: 5
103 <211> LENGTH: 19
104 <212> TYPE: RNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
110 <400> SEQUENCE: 5
111 gugguacugc cugauaggg                                           19
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 19
116 <212> TYPE: RNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
122 <400> SEQUENCE: 6
123 cugccugaua gggugcuug                                           19
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 19
128 <212> TYPE: RNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
134 <400> SEQUENCE: 7
135 ccuuguggua cugccugau                                           19
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138 <210> SEQ ID NO: 8
139 <211> LENGTH: 19

RAW SEQUENCE LISTING   DATE: 06/16/2006
PATENT APPLICATION: US/10/667,271A   TIME: 11:46:30

Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

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140 <212> TYPE: RNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
146 <400> SEQUENCE: 8
147 gcgaaaggcc uugugguac                                              19
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 19
152 <212> TYPE: RNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
158 <400> SEQUENCE: 9
159 uacugccuga uagggugcu                                              19
162 <210> SEQ ID NO: 10
163 <211> LENGTH: 19
164 <212> TYPE: RNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
170 <400> SEQUENCE: 10
171 gguacugccu gauagggug                                              19
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 19
176 <212> TYPE: RNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
182 <400> SEQUENCE: 11
183 aaaggccuug ugguacugc                                              19
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 19
188 <212> TYPE: RNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
194 <400> SEQUENCE: 12
195 aaggccuugu gguacugcc                                              19
198 <210> SEQ ID NO: 13
199 <211> LENGTH: 19
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
206 <400> SEQUENCE: 13
207 cuugugguac ugccugaua                                              19
210 <210> SEQ ID NO: 14
```

211 <211> LENGTH: 19
212 <212> TYPE: RNA

RAW SEQUENCE LISTING   DATE: 06/16/2006
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Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

```
    213 <213> ORGANISM: Artificial Sequence
    215 <220> FEATURE:
    216 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    218 <400> SEQUENCE: 14
    219 aggccuugug guacugccu                                              19
    222 <210> SEQ ID NO: 15
    223 <211> LENGTH: 19
    224 <212> TYPE: RNA
    225 <213> ORGANISM: Artificial Sequence
    227 <220> FEATURE:
    228 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    230 <400> SEQUENCE: 15
    231 guacugccug auaggggugc                                             19
    234 <210> SEQ ID NO: 16
    235 <211> LENGTH: 19
    236 <212> TYPE: RNA
    237 <213> ORGANISM: Artificial Sequence
    239 <220> FEATURE:
    240 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    242 <400> SEQUENCE: 16
    243 acugccugau agggugcuu                                              19
    246 <210> SEQ ID NO: 17
    247 <211> LENGTH: 19
    248 <212> TYPE: RNA
    249 <213> ORGANISM: Artificial Sequence
    251 <220> FEATURE:
    252 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    254 <400> SEQUENCE: 17
    255 cuugcgagug ccccgggag                                              19
    258 <210> SEQ ID NO: 18
    259 <211> LENGTH: 19
    260 <212> TYPE: RNA
    261 <213> ORGANISM: Artificial Sequence
    263 <220> FEATURE:
    264 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    266 <400> SEQUENCE: 18
    267 cugauagggu gcuugcgag                                              19
    270 <210> SEQ ID NO: 19
    271 <211> LENGTH: 19
    272 <212> TYPE: RNA
    273 <213> ORGANISM: Artificial Sequence
    275 <220> FEATURE:
    276 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    278 <400> SEQUENCE: 19
    279 uugcgagugc cccgggagg                                              19
    282 <210> SEQ ID NO: 20
    283 <211> LENGTH: 19
```

284 <212> TYPE: RNA
285 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING   DATE: 06/16/2006
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Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

```
    287 <220> FEATURE:
    288 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    290 <400> SEQUENCE: 20
    291 ccugauaggg ugcuugcga                                              19
    294 <210> SEQ ID NO: 21
    295 <211> LENGTH: 19
    296 <212> TYPE: RNA
    297 <213> ORGANISM: Artificial Sequence
    299 <220> FEATURE:
    300 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    302 <400> SEQUENCE: 21
    303 ggccuugugg uacugccug                                              19
    306 <210> SEQ ID NO: 22
    307 <211> LENGTH: 19
    308 <212> TYPE: RNA
    309 <213> ORGANISM: Artificial Sequence
    311 <220> FEATURE:
    312 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    314 <400> SEQUENCE: 22
    315 gcuugcgagu gccccggga                                              19
    318 <210> SEQ ID NO: 23
    319 <211> LENGTH: 19
    320 <212> TYPE: RNA
    321 <213> ORGANISM: Artificial Sequence
    323 <220> FEATURE:
    324 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    326 <400> SEQUENCE: 23
    327 ugccgauag ggugcuugc                                               19
    330 <210> SEQ ID NO: 24
    331 <211> LENGTH: 19
    332 <212> TYPE: RNA
    333 <213> ORGANISM: Artificial Sequence
    335 <220> FEATURE:
    336 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    338 <400> SEQUENCE: 24
    339 gaaaggccuu gugguacug                                              19
    342 <210> SEQ ID NO: 25
    343 <211> LENGTH: 19
    344 <212> TYPE: RNA
    345 <213> ORGANISM: Artificial Sequence
    347 <220> FEATURE:
    348 <223> OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA
sense region
    350 <400> SEQUENCE: 25
    351 gccugauagg gugcuugcg                                              19
    354 <210> SEQ ID NO: 26
    355 <211> LENGTH: 19
    356 <212> TYPE: RNA
```

357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/16/2006
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Input Set : F:\02-763-B Sequence Listing.txt
Output Set: N:\CRF4\06162006\J667271A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1421; N Pos. 20,21
Seq#:1422; N Pos. 20,21
Seq#:1423; N Pos. 20,21
Seq#:1424; N Pos. 20,21
Seq#:1425; N Pos. 20,21
Seq#:1426; N Pos. 20,21
Seq#:1427; N Pos. 20,21
Seq#:1428; N Pos. 20,21
Seq#:1429; N Pos. 20,21
Seq#:1430; N Pos. 20,21
Seq#:1431; N Pos. 20,21
Seq#:1432; N Pos. 20,21
Seq#:1433; N Pos. 20,21
Seq#:1434; N Pos. 20,21
Seq#:1435; N Pos. 1,2
Seq#:1436; N Pos. 1,2
Seq#:1437; N Pos. 1,2
Seq#:1438; N Pos. 1,2
Seq#:1439; N Pos. 1,2
Seq#:1440; N Pos. 1,2
Seq#:1441; N Pos. 1,2
Seq#:1442; N Pos. 1,2
Seq#:1443; N Pos. 1,2
Seq#:1444; N Pos. 1,2
Seq#:1445; N Pos. 1,2
Seq#:1446; N Pos. 1,2
Seq#:1447; N Pos. 1,2
Seq#:1448; N Pos. 1,2
Seq#:1477; N Pos. 20,21
Seq#:1478; N Pos. 20,21
Seq#:1479; N Pos. 20,21
Seq#:1480; N Pos. 20,21
Seq#:1481; N Pos. 20,21
Seq#:1482; N Pos. 20,21
Seq#:1483; N Pos. 20,21
Seq#:1484; N Pos. 20,21
Seq#:1485; N Pos. 20,21
Seq#:1486; N Pos. 20,21
Seq#:1487; N Pos. 20,21
Seq#:1488; N Pos. 20,21
Seq#:1489; N Pos. 20,21
Seq#:1491; N Pos. 20,21
Seq#:1492; N Pos. 20,21
Seq#:1493; N Pos. 20,21
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/16/2006
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Input Set : **F:\02-763-B Sequence Listing.txt**
Output Set: **N:\CRF4\06162006\J667271A.raw**

Seq#:1494; N Pos. 20,21
Seq#:1499; N Pos. 20,21
Seq#:1500; N Pos. 20,21
Seq#:1501; N Pos. 20,21
Seq#:1502; N Pos. 20,21
Seq#:1503; N Pos. 20,21
Seq#:1504; N Pos. 20,21

<u>Invalid Line Length:</u>
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1690; Line(s) 28652
Seq#:1691; Line(s) 28680
Seq#:1692; Line(s) 28713
Seq#:1693; Line(s) 28745
Seq#:1694; Line(s) 28777
Seq#:1695; Line(s) 28810
Seq#:1696; Line(s) 28844

VERIFICATION SUMMARY   DATE: 06/16/2006
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Input Set : **F:\02-763-B Sequence Listing.txt**
Output Set: **N:\CRF4\06162006\J667271A.raw**

```
L:17180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1421 after pos.:0
L:17198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1422 after pos.:0
L:17216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1423 after pos.:0
L:17234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1424 after pos.:0
L:17252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1425 after pos.:0
L:17270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1426 after pos.:0
L:17288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1427 after pos.:0
L:17306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1428 after pos.:0
L:17324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1429 after pos.:0
L:17342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1430 after pos.:0
L:17360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1431 after pos.:0
L:17378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1432 after pos.:0
L:17396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1433 after pos.:0
L:17414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1434 after pos.:0
L:17432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1435 after pos.:0
L:17450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1436 after pos.:0
L:17468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1437 after pos.:0
L:17486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1438 after pos.:0
L:17504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1439 after pos.:0
L:17522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1440 after pos.:0
L:17540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1441 after pos.:0
L:17558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1442 after pos.:0
L:17576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1443 after pos.:0
L:17594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1444 after pos.:0
L:17612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1445 after pos.:0
L:17630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1446 after pos.:0
L:17648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1447 after pos.:0
L:17666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1448 after pos.:0
L:18035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1477 after pos.:0
L:18068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1478 after pos.:0
L:18096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1479 after pos.:0
L:18124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1480 after pos.:0
L:18162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1481 after pos.:0
L:18205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1482 after pos.:0
L:18243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1483 after pos.:0
L:18281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1484 after pos.:0
L:18334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1485 after pos.:0
L:18392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1486 after pos.:0
L:18435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1487 after pos.:0
L:18478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1488 after pos.:0
L:18526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1489 after pos.:0
L:18587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1491 after pos.:0
L:18620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1492 after pos.:0
L:18663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1493 after pos.:0
L:18701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1494 after pos.:0
L:18826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1499 after pos.:0
L:18864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1500 after pos.:0
L:18937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1501 after pos.:0
```

VERIFICATION SUMMARY   DATE: 06/16/2006
PATENT APPLICATION: **US/10/667,271A**   TIME: 11:46:31

Input Set : **F:\02-763-B Sequence Listing.txt**
Output Set: **N:\CRF4\06162006\J667271A.raw**

L:19020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1502 after pos.:0
L:19107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1503 after pos.:0

```
<210>    1421
<211>    21
<212>    RNA
<213>    Artificial Sequence

<220>
<223>    Description of Artificial Sequence: siNA sense region
```

no t's allowed in an RNA sequence, even if represented by "n"

```
<220>
<221>    misc_feature
<222>    (20)..(21)
<223>    n stands for thymidine
```

```
<220>
<221>    misc_feature
<222>    (20)..(21)
<223>    n stands for thymidine
```

delete - already shown

```
<400>    1421
ccccgggagg ucucguagan n
```

For a combined DNA/RNA sequence, use <212> DNA and explain in <220>-<223> section

This error also appears in subsequent sequences